

## EAST Search History

| Ref # | Hits | Search Query  | DBs                    | Default Operator | Plurals | Time Stamp       |
|-------|------|---|------------------------|------------------|---------|------------------|
| S1    | 3    | (segmented flow).ab. and microfluidic   | US-PGPUB; USPAT        | ADJ              | ON      | 2008/02/29 10:10 |
| S2    | 55   | (immiscible).ab. and microfluidic   | US-PGPUB; USPAT        | ADJ              | ON      | 2008/02/29 10:11 |
| S3    | 5    | (immiscible).ti. and microfluidic   | US-PGPUB; USPAT        | ADJ              | ON      | 2008/02/29 10:21 |
| S4    | 41   | (("20010012612"   "20010055546"   "20020019060"   "20020039783"   "20020042125"   "20020045246"   "20020055167"   "20020058332"   "20020090644"   "20020142618"   "20020155032"   "20020166592"   "20020168780"   "20020175079"   "20020182747"   "20020187547"   "20030124619"   "20030145894"   "20030175165"   "20030201022"   "20030211507"   "20040007463"   "20040166031"   "20040200909"   "20050042137"   "5716852"   "5932100"   "5948684"   "5972710"   "6171865"   "6262907"   "6368871"   "6391541"   "6431476"   "6440725"   "6454945"   "6524456"   "6541213"   "6582963"   "6766817"   "6818185"). PN. | US-PGPUB; USPAT; USOCR | ADJ              | ON      | 2008/05/01 15:30 |
| S5    | 4661 | substrate and segment\$3 and laminar  | US-PGPUB; USPAT; USOCR | ADJ              | ON      | 2008/05/01 15:51 |
| S6    | 60   | substrate and (segment\$3 flow) and laminar   | US-PGPUB; USPAT; USOCR | ADJ              | ON      | 2008/05/01 15:51 |
| S7    | 152  | substrate and (segment\$3). ab. and laminar   | US-PGPUB; USPAT; USOCR | ADJ              | ON      | 2008/05/01 16:06 |
| S8    | 116  | substrate and (segment\$3). ab. and laminar and flow  | US-PGPUB; USPAT; USOCR | ADJ              | ON      | 2008/05/01 16:06 |

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|-----|----|---|--|-----|-----|---------------------|
| S9  | 24 | substrate and (segment\$3).<br>ab. and laminar and flow<br>and micro\$1fluid\$3 | US-PGPUB;<br>USPAT; USOCR                  | ADJ | ON  | 2008/05/01<br>16:07 |
| S14 | 9  | substrate and (segment\$3<br>flow).ab. and laminar and<br>flow                  | US-PGPUB;<br>USPAT; USOCR                  | ADJ | ON  | 2008/05/01<br>16:26 |
| S15 | 14 | substrate and (segmented<br>flow) and laminar and flow                          | US-PGPUB;<br>USPAT; USOCR                  | ADJ | ON  | 2008/05/01<br>16:26 |
| S16 | 49 | "6440725"   | US-PGPUB;<br>USPAT; USOCR                  | ADJ | ON  | 2008/05/01<br>16:28 |
| S17 | 0  | "2002142618"  | US-PGPUB;<br>USPAT; USOCR                  | ADJ | ON  | 2008/05/01<br>16:35 |
| S18 | 0  | ("2002142618").PN.  | US-PGPUB;<br>USPAT; USOCR                  | OR  | OFF | 2008/05/01<br>16:35 |
| S19 | 1  | ("20020142618").PN.   | US-PGPUB;<br>USPAT; USOCR                  | OR  | OFF | 2008/05/01<br>16:35 |
| S20 | 1  | ("6068752").PN.   | US-PGPUB;<br>USPAT; USOCR                  | OR  | OFF | 2008/05/01<br>16:45 |
| S21 | 1  | ("6149787").PN.   | US-PGPUB;<br>USPAT; USOCR                  | OR  | OFF | 2008/05/01<br>16:45 |
| S22 | 1  | ("6042709").PN.   | US-PGPUB;<br>USPAT; USOCR                  | OR  | OFF | 2008/05/01<br>16:46 |
| S23 | 1  | ("6231737").PN.   | US-PGPUB;<br>USPAT; USOCR                  | OR  | OFF | 2008/05/01<br>16:46 |
| S24 | 1  | ("6186660").PN.   | US-PGPUB;<br>USPAT; USOCR                  | OR  | OFF | 2008/05/01<br>16:47 |
| S25 | 1  | ("5927852").PN.   | US-PGPUB;<br>USPAT; USOCR                  | OR  | OFF | 2008/05/01<br>16:48 |
| S26 | 10 | ("9700442").PN.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; DERWENT | OR  | OFF | 2008/05/01<br>16:48 |
| S27 | 2  | ("0223163").PN.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; DERWENT | OR  | OFF | 2008/05/01<br>16:50 |
| S28 | 2  | ("0128667").PN.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; DERWENT | OR  | OFF | 2008/05/01<br>16:50 |
| S29 | 1  | ("60233037").PN.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; DERWENT | OR  | OFF | 2008/05/01<br>16:51 |
| S31 | 99 | kitamori.in.  | US-PGPUB;<br>USPAT                         | ADJ | ON  | 2008/05/06<br>11:32 |
| S32 | 48 | kitamori.in. and flow   | US-PGPUB;<br>USPAT                         | ADJ | ON  | 2008/05/06<br>11:32 |
| S33 | 0  | kitamori.in. and flow and<br>segment\$3   | US-PGPUB;<br>USPAT                         | ADJ | ON  | 2008/05/06<br>11:33 |
| S34 | 5  | kitamori.in. and segment<br>\$3   | US-PGPUB;<br>USPAT                         | ADJ | ON  | 2008/05/06<br>11:33 |

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| S35 | 13  | hisamoto.in. and segment\$3  | US-PGPUB;<br>USPAT                    | ADJ | ON | 2008/05/06<br>11:33 |
| S36 | 0   | hibara.in. and segment\$3  | US-PGPUB;<br>USPAT                    | ADJ | ON | 2008/05/06<br>11:34 |
| S37 | 6   | kanagawa.in. and segment\$3  | US-PGPUB;<br>USPAT                    | ADJ | ON | 2008/05/06<br>11:34 |
| S38 | 4   | segment\$4 and laminar and microfluid\$3   | US-PGPUB;<br>USPAT; USOCR;<br>DERWENT | ADJ | ON | 2008/05/06<br>12:14 |
| S39 | 4   | segment\$4 and laminar and micro\$4fluid\$3  | US-PGPUB;<br>USPAT; USOCR;<br>DERWENT | ADJ | ON | 2008/05/06<br>12:15 |
| S40 | 606 | segment\$4 and laminar and micro\$1fluid\$3  | US-PGPUB;<br>USPAT; USOCR;<br>DERWENT | ADJ | ON | 2008/05/06<br>12:15 |
| S41 | 32  | segment\$4.ab. and laminar and micro\$1fluid\$3  | US-PGPUB;<br>USPAT; USOCR;<br>DERWENT | ADJ | ON | 2008/05/06<br>12:15 |
| S42 | 18  | (segment\$4 flow).ab. and laminar  | US-PGPUB;<br>USPAT; USOCR;<br>DERWENT | ADJ | ON | 2008/05/06<br>12:57 |
| S43 | 0   | ("2007/0197003").URPN.   | USPAT                                 | ADJ | ON | 2008/05/06<br>12:58 |
| S44 | 41  | ("20020066401"  <br>"20020071952"  <br>"20020144644"  <br>"20030017264"  <br>"20040091710"  <br>"20040110002"  <br>"20050112849"  <br>"5147841"   "5262357"  <br>"5293050"   "5354707"  <br>"5395791"   "5422489"  <br>"5434878"   "5492080"  <br>"5499260"   "5505928"  <br>"5515393"   "5525377"  <br>"5537000"   "5541948"  <br>"5585640"   "5625456"  <br>"5711803"   "5747180"  <br>"5751018"   "5882779"  <br>"5985173"   "5985353"  <br>"5990479"   "6054495"  <br>"6057561"   "6114038"  <br>"6179912"   "6207229"  <br>"6224739"   "6251303"  <br>"6262129"   "6322901"  <br>"6326144"   "6379635"  <br>"6447698"   "6576291"  <br>"6617583"   "6633370"  <br>"6682592"   "6794265"  <br>"6821337").PN. | USPAT                                 | ADJ | ON | 2008/05/06<br>12:59 |
| S45 | 164 | 137/806.cds.   | US-PGPUB;<br>USPAT; USOCR             | ADJ | ON | 2008/05/06<br>14:14 |

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|-----|-----|---|--|-----|----|---------------------|
| S46 | 16  | Barrow-David.in. or<br>Harries-Nicola.in. or Jones-<br>Tyrone.in. or Bouris-Kostas.<br>in.  | US-PGPUB;<br>USPAT; USOCR                  | ADJ | ON | 2008/05/06<br>14:29 |
| S47 | 14  | Barrow-David-\$.in. or<br>Harries-Nicola-\$.in. or<br>Jones-Tyrone-\$.in. or<br>Bouris-Kostas-\$.in.  | US-PGPUB;<br>USPAT; USOCR                  | ADJ | ON | 2008/05/06<br>14:31 |
| S48 | 2   | "20030201022"   | US-PGPUB;<br>USPAT; USOCR;<br>DERWENT      | ADJ | ON | 2008/05/06<br>16:28 |
| S49 | 5   | 2002-123835   | US-PGPUB;<br>USPAT; USOCR;<br>JPO; DERWENT | ADJ | ON | 2008/05/06<br>16:29 |
| S50 | 7   | 2002-158093   | US-PGPUB;<br>USPAT; USOCR;<br>JPO; DERWENT | ADJ | ON | 2008/05/06<br>16:30 |
| S51 | 15  | ("2004-011413"  <br>"20040068019"  <br>"3806408"   "5524660"  <br>"5869004"   "5957579"  <br>"6725882").PN.   | US-PGPUB;<br>USPAT; USOCR;<br>JPO; DERWENT | ADJ | ON | 2008/05/06<br>16:33 |
| S52 | 19  | ("2004011413"  <br>"20040068019"  <br>"3806408"   "5524660"  <br>"5869004"   "5957579"  <br>"6725882").PN.  | US-PGPUB;<br>USPAT; USOCR;<br>JPO; DERWENT | ADJ | ON | 2008/05/06<br>16:33 |
| S53 | 7   | ("2004011413"  <br>"20040068019"  <br>"3806408"   "5524660"  <br>"5869004"   "5957579"  <br>"6725882").PN.  | US-PGPUB;<br>USPAT; USOCR                  | ADJ | ON | 2008/05/06<br>16:33 |
| S54 | 194 | ("4908112"   "4963498"  <br>"5126022"   "5140161"  <br>"5188963"   "5304487"  <br>"5486335"   "5571410"  <br>"5585069"   "5593838"  <br>"5603351"   "5605662"  <br>"5660703").PN. OR<br>("5869004").URPN. | US-PGPUB;<br>USPAT; USOCR                  | ADJ | ON | 2008/05/06<br>16:35 |
| S55 | 14  | ("4908112"   "4963498"  <br>"5126022"   "5140161"  <br>"5188963"   "5304487"  <br>"5486335"   "5571410"  <br>"5585069"   "5593838"  <br>"5603351"   "5605662"  <br>"5660703").PN. OR<br>("5869004").PN.   | US-PGPUB;<br>USPAT; USOCR                  | ADJ | ON | 2008/05/06<br>16:38 |

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|-----|-------|---|--|-----|-----|---------------------|
| S56 | 30    | ("3806408"   "3806408"  <br>"3962383"   "5326484"  <br>"5476744"   "5524660"  <br>"5869004"   "5957579"  <br>"6177479"   "6258858"  <br>"6281254"   "6377387"  <br>"6576023"   "6725882").<br>PN.         | US-PGPUB;<br>USPAT; USOCR;<br>JPO; DERWENT | ADJ | ON  | 2008/05/06<br>16:41 |
| S57 | 14    | ("3806408"   "3806408"  <br>"3962383"   "5326484"  <br>"5476744"   "5524660"  <br>"5869004"   "5957579"  <br>"6177479"   "6258858"  <br>"6281254"   "6377387"  <br>"6576023"   "6725882").<br>PN.         | US-PGPUB;<br>USPAT; USOCR                  | ADJ | ON  | 2008/05/06<br>16:41 |
| S58 | 13    | ("3747759"   "4000086"  <br>"4201691"   "4533254"  <br>"5063002"   "5247957"  <br>"5326484"   "5626751"  <br>"5730187"   "5842787"  <br>"5904424"   "6155710"  <br>"6177479").PN. OR<br>("6576023").URPN. | US-PGPUB;<br>USPAT; USOCR                  | ADJ | ON  | 2008/05/06<br>16:44 |
| S59 | 0     | micro\$1sphere  | US-PGPUB;<br>USPAT; USOCR                  | ADJ | ON  | 2008/05/06<br>16:46 |
| S60 | 15387 | micro\$1sphere  | US-PGPUB;<br>USPAT; USOCR                  | ADJ | ON  | 2008/05/06<br>16:46 |
| S61 | 1143  | micro\$1sphere and<br>laminar   | US-PGPUB;<br>USPAT; USOCR                  | ADJ | ON  | 2008/05/06<br>16:46 |
| S62 | 33    | micro\$1sphere.ab. and<br>laminar   | US-PGPUB;<br>USPAT; USOCR                  | ADJ | ON  | 2008/05/06<br>16:46 |
| S63 | 8     | micro\$1sphere.ab. and<br>micro\$1fluid\$3  | US-PGPUB;<br>USPAT; USOCR                  | ADJ | ON  | 2008/05/06<br>16:47 |
| S64 | 64    | micro\$1sphere and micro<br>\$1fluid\$3.ab.   | US-PGPUB;<br>USPAT; USOCR                  | ADJ | ON  | 2008/05/06<br>16:48 |
| S65 | 0     | WO0223163   | US-PGPUB;<br>USPAT; USOCR;<br>DERWENT      | ADJ | ON  | 2008/05/07<br>08:08 |
| S66 | 0     | WO0223163   | US-PGPUB;<br>USPAT; USOCR;<br>DERWENT      | ADJ | ON  | 2008/05/07<br>08:08 |
| S67 | 5     | "0223163"   | US-PGPUB;<br>USPAT; USOCR;<br>DERWENT      | ADJ | ON  | 2008/05/07<br>08:08 |
| S68 | 1     | ("7294503").PN.   | US-PGPUB;<br>USPAT; USOCR                  | OR  | OFF | 2008/05/07<br>08:09 |
| S69 | 2     | ("0164332").PN.   | US-PGPUB;<br>USPAT; USOCR;<br>DERWENT      | OR  | OFF | 2008/05/07<br>08:10 |

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|-----|-----|--|---------------------------------------|-----|-----|---------------------|
| S70 | 2   | ("0123127").PN.  | US-PGPUB;<br>USPAT; USOCR;<br>DERWENT | OR  | OFF | 2008/05/07<br>08:11 |
| S71 | 1   | ("2003/0201022").URPN.   | USPAT                                 | ADJ | ON  | 2008/05/07<br>08:30 |
| S72 | 247 | 137/833.ccls.  | USPAT                                 | ADJ | ON  | 2008/05/07<br>08:32 |
| S73 | 69  | 137/833.ccls. and micro<br>\$1fluid\$3   | USPAT                                 | ADJ | ON  | 2008/05/07<br>08:32 |
| S74 | 9   | (flow near2 segment\$3).<br>ab. and micro\$1fluid\$3   | USPAT                                 | ADJ | ON  | 2008/05/07<br>08:47 |
| S75 | 11  | (segmented flow) and<br>micro\$1fluid\$3   | USPAT                                 | ADJ | ON  | 2008/05/07<br>08:49 |
| S76 | 10  | ("20020058332"  <br>"20030061687"  <br>"20030230486"  <br>"20040188254"  <br>"5185099"   "5872010"  <br>"6409832"   "6630006"  <br>"6797056"   "6872250").<br>PN. OR ("7129091").URPN.   | US-PGPUB;<br>USPAT; USOCR             | ADJ | ON  | 2008/05/07<br>08:54 |
| S77 | 27  | ("20010011071"  <br>"20020029814"  <br>"20020137218"  <br>"20020144738"  <br>"20020145231"  <br>"20020189529"  <br>"20020189530"  <br>"20020195047"  <br>"20020195048"  <br>"20020195049"  <br>"20020195050"  <br>"20020195051"  <br>"20020195052"  <br>"20030005877"  <br>"20030061687"  <br>"20030154910"  <br>"4908112"   "5132012"  <br>"5180480"   "5296114"  <br>"5485270"   "5833860"  <br>"6220075"   "6267935"  <br>"6409832"   "6527432").<br>PN. OR ("6872250").URPN. | US-PGPUB;<br>USPAT; USOCR             | ADJ | ON  | 2008/05/07<br>08:55 |
| S78 | 114 | (segmented flow)   | USPAT                                 | ADJ | ON  | 2008/05/07<br>08:57 |
| S79 | 3   | ("3650757"   "4059149").<br>PN. OR ("6458335").URPN.   | US-PGPUB;<br>USPAT; USOCR             | ADJ | ON  | 2008/05/07<br>09:00 |

|     |       |  |   |     |    |                     |
|-----|-------|--|---|-----|----|---------------------|
| S80 | 49    | ("3047367"   "4028056"   "4100797"   "4125828"   "4300906"   "4520108"   "4610544"   "4708931"   "4876504"   "4931384"   "5215926"   "5240856"   "5260192"   "5304487"   "5312757"   "5457526"   "5464752"   "5469251"   "5496700"   "5523238"   "5538855"   "5548395"   "5594544"   "5644388"   "5952184").PN. OR ("6251615").URPN. | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/05/07<br>09:01 |
| S81 | 0     | microfluidic and (substrate near4 (held together))   | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/05/07<br>10:12 |
| S82 | 9     | microfluidic and (substrate near4 (held together))   | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/05/07<br>10:12 |
| S83 | 84    | microfluidic and (substrate near4 (clamp\$4))  | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/05/07<br>10:14 |
| S84 | 46    | microfluidic and (substrate near2 (clamp\$4))  | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/05/07<br>10:14 |
| S85 | 810   | 204/450.ccls.  | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/05/07<br>10:37 |
| S86 | 1143  | micro\$1sphere and laminar   | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/05/07<br>10:39 |
| S87 | 53    | micro\$1sphere and laminar and micro\$1fluidic   | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/05/07<br>10:39 |
| S88 | 55493 | immiscible   | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/05/07<br>10:42 |
| S89 | 904   | immiscible and segmented   | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/05/07<br>10:42 |
| S91 | 1186  | immiscible and micro \$sphere  | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/05/07<br>10:42 |
| S92 | 1184  | immiscible and micro \$1sphere   | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/05/07<br>10:42 |
| S93 | 190   | immiscible and micro \$1sphere and laminar   | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/05/07<br>10:43 |
| S94 | 0     | laminar and segmented flow and microfluid\$5   | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/12/18<br>10:35 |
| S95 | 15    | laminar and segmented flow and microfluid\$5   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/12/18<br>10:35 |

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|------|-------|---|---|-----|----|---------------------|
| S96  | 42    | segmented flow and microfluid\$5                      | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/12/18<br>10:38 |
| S97  | 289   | 436/53.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/12/18<br>10:46 |
| S98  | 69685 | immiscible  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/12/18<br>10:52 |
| S99  | 1182  | immiscible and microfluidic                           | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/12/18<br>10:52 |
| S100 | 1     | immiscible and microfluidic and alternate flow        | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/12/18<br>10:52 |
| S101 | 20    | immiscible and microfluidic and alternate\$4 flow     | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/12/18<br>10:52 |
| S102 | 141   | 436/53.ccls. and (alternate or segment\$4)            | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/12/18<br>10:57 |
| S103 | 65    | 436/53.ccls. and (alternate or segment\$4) near3 flow | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/12/18<br>11:09 |



|      |      |   |   |     |    |                     |
|------|------|---|---|-----|----|---------------------|
| S104 | 24   | immiscible and segmented flow and microfluid\$5   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/12/18<br>11:12 |
| S105 | 53   | "6440725"   | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/12/18<br>11:13 |
| S106 | 0    | "2002142618"  | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/12/18<br>11:14 |
| S107 | 1    | "20020142618"   | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/12/18<br>11:14 |
| S108 | 1047 | (<br>"20010011071"  <br>"20020029814"  <br>"20020058332"  <br>"20020066401"  <br>"20020071797"  <br>"20020071952"  <br>"20020092767"  <br>"20020128234"  <br>"20020137218"  <br>"20020144644"  <br>"20020144738"  <br>"20020145231"  <br>"20020150683"  <br>"20020159918"  <br>"20020166592"  <br>"20020189529"  <br>"20020189530"  <br>"20020195047"  <br>"20020195048"  <br>"20020195049"  <br>"20020195050"  <br>"20020195051"  <br>"20020195052"  <br>"20030005877"  <br>"20030017264"  <br>"20030027858"  <br>"20030061687"  <br>"20030154910"  <br>"20030190563"  <br>"20030215957"  <br>"20030224436"  <br>"20030228241"  <br>"20030230486"  <br>"20040007463"  <br>"20040011413"  <br>"20040027915"  <br>"20040029977"  <br>"20040037161"  <br>"20040043509"  <br>"20040091710"  <br>"20040104010"  <br>"20040110002"  <br>"20040123626"  <br>) | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/12/18<br>11:15 |

"20040125689" |  
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| S109 | 155 | S108 and (segmented or<br>alternat\$4) near4 flow   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/18<br>11:16 |
| S110 | 213 | immiscible and<br>(segmented or alternat\$4)<br>flow  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/18<br>11:34 |
| S111 | 109 | immiscible and<br>(segmented or alternating<br>or alternate) flow   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/18<br>11:34 |
| S112 | 34  | immiscible and segmented<br>flow  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/18<br>11:34 |

|      |    |  |                           |     |    |                     |
|------|----|--|---------------------------|-----|----|---------------------|
| S113 | 13 | ("20020058332"  <br>"20030061687"  <br>"20030230486"  <br>"20040188254"  <br>"5185099"   "5872010"  <br>"6409832"   "6630006"  <br>"6797056"   "6872250").<br>PN. OR ("7129091").URPN.   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/18<br>11:36 |
| S114 | 3  | ("20030230486"  <br>"5726404"   "6695009").<br>PN.   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/18<br>11:37 |
| S115 | 66 | ("2850940"  <br>"20010035351"  <br>"4390403"   "4832815"  <br>"4833332"   "4908112"  <br>"5104508"   "5126022"  <br>"5141609"   "5162654"  <br>"5637469"   "5699157"  <br>"5705813"   "5750015"  <br>"5779868"   "5800690"  <br>"5842787"   "5852495"  <br>"5869004"   "5872010"  <br>"5876675"   "5880071"  <br>"5882465"   "5885470"  <br>"5922591"   "5942443"  <br>"5948227"   "5955028"  <br>"5957579"   "5958203"  <br>"5958694"   "5959291"  <br>"5964995"   "5965001"  <br>"5965410"   "5972187"  <br>"5976336"   "5989402"  <br>"6001231"   "6004515"  <br>"6011252"   "6012902"  <br>"6042710"   "6046056"  <br>"6057149"   "6068752"  <br>"6071478"   "6074725"  <br>"6080295"   "6100541"  <br>"6107044"   "6120098"  <br>"6130098"   "6150180"  <br>"6156181"   "6171067"  <br>"6238538"   "6267858"  <br>"6280589"   "6337740"  <br>"6368871"   "6375817"  <br>"6695009"   "6783647"  <br>"6939452").PN. | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/18<br>11:38 |

|      |     |  |                           |     |     |                     |
|------|-----|--|---------------------------|-----|-----|---------------------|
| SI16 | 294 | ("4675300"   "4737464"  <br>"4908112"   "4963498"  <br>"4978503"   "5096807"  <br>"5126022"   "5140161"  <br>"5144139"   "5164598"  <br>"5171132"   "5171534"  <br>"5188963"   "5192405"  <br>"5271724"   "5277556"  <br>"5278048"   "5296375"  <br>"5304487"   "5324591"  <br>"5375979"   "5384261"  <br>"5395503"   "5427946"  <br>"5429734"   "5445939"  <br>"5486335"   "5496697"  <br>"5498392"   "5571410"  <br>"5585069"   "5593838"  <br>"5605662"   "5637469"  <br>"5650075"   "5658723"  <br>"5773298"   "5780754").<br>PN. OR ("5942443").URPN. | US-PGPUB;<br>USPAT; USOCR | ADJ | ON  | 2008/12/18<br>11:42 |
| SI17 | 1   | ("5927852").PN.  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON  | 2008/12/18<br>13:38 |
| SI18 | 5   | ((("6046056") or<br>("5789045") or<br>("6068752") or<br>("4676274") or<br>("6453928"))).PN.  | US-PGPUB;<br>USPAT; USOCR | OR  | OFF | 2008/12/18<br>13:39 |
| SI19 | 1   | 137/833.ccls. and<br>segmented flow  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON  | 2008/12/18<br>13:41 |
| SI20 | 121 | 137/833.ccls. and<br>microfluid\$3   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON  | 2008/12/18<br>13:42 |
| SI23 | 1   | "10534592"   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON  | 2008/12/18<br>14:09 |
| SI24 | 0   | microfluidic and<br>(substrate near5 casement<br>layer)  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON  | 2008/12/18<br>14:15 |
| SI25 | 0   | microfluidic and (substrate<br>near5 casement layer)   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON  | 2008/12/18<br>14:15 |
| SI26 | 1   | microfluidic and (substrate<br>near5 casement)   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON  | 2008/12/18<br>14:15 |
| SI27 | 1   | microfluidic and (substrate<br>near10 casement)  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON  | 2008/12/18<br>14:16 |
| SI28 | 1   | microfluidic and (substrate<br>same casement)  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON  | 2008/12/18<br>14:16 |
| SI29 | 43  | (substrate same<br>casement)   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON  | 2008/12/18<br>14:16 |
| SI30 | 20  | (substrate near5<br>casement)  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON  | 2008/12/18<br>14:16 |
| SI31 | 24  | (substrate near9<br>casement)  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON  | 2008/12/18<br>14:18 |



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|------|-----|--|---|-----|----|---------------------|
| S132 | 22  | (segmented flow).ab.   | US-PGPUB;<br>USPAT  | ADJ | ON | 2008/12/19<br>10:46 |
| S133 | 22  | (segmented flow).ab.   | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/12/19<br>10:46 |
| S134 | 50  | 436/53.cds. and microfluid<br>\$4  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/12/19<br>11:21 |
| S135 | 26  | ("20020058332"  <br>"20030061687"  <br>"20030230486"  <br>"20040188254"  <br>"4853336"   "5185099"  <br>"5739036"   "5872010"  <br>"5872010"   "6296673"  <br>"6409832"   "6630006"  <br>"6766817"   "6797056"  <br>"6872250").PN. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2008/12/19<br>11:27 |
| S136 | 1   | microfluidic and substrate<br>and casement layer   | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/12/19<br>14:15 |
| S137 | 1   | substrate and casement<br>layer  | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/12/19<br>14:15 |
| S138 | 1   | microfluidic and substrate<br>and casement   | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/12/19<br>14:15 |
| S139 | 43  | substrate same casement  | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/12/19<br>14:16 |
| S140 | 717 | substrate near4 ((hold or<br>held) together)   | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/12/19<br>14:18 |
| S141 | 45  | substrate near4 ((hold or<br>held) together) near5 layer   | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/12/19<br>14:18 |
| S142 | 22  | microfluidic and substrate<br>near4 ((hold or held)<br>together)   | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/12/19<br>14:19 |
| S143 | 2   | microfluidic and<br>substrates! near7 ((hold or<br>held) together)   | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/12/19<br>14:26 |
| S144 | 278 | substrates! near5 ((hold or<br>held) together)   | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/12/19<br>14:27 |
| S145 | 216 | substrates! near3 ((hold or<br>held) together)   | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/12/19<br>14:27 |
| S146 | 22  | substrates! near3 ((hold or<br>held) together) near9 layer   | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/12/19<br>14:27 |
| S147 | 4   | substrates! near3 ((hold or<br>held) together) near9<br>outer  | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/12/19<br>14:29 |
| S148 | 216 | substrates! near3 ((hold or<br>held) together)   | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2008/12/19<br>14:30 |

|      |     |   |                           |     |    |                     |
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| S149 | 121 | substrates! adj3 held between   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/19<br>14:45 |
| S150 | 1   | substrates! adj3 held between adj5 layer                              | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/19<br>14:46 |
| S151 | 121 | substrates! adj3 held between   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/19<br>14:46 |
| S152 | 69  | substrates! adj2 held between   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/19<br>14:46 |
| S153 | 490 | substrates! adj2 sandwiched   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/19<br>15:13 |
| S154 | 9   | microfluidic and substrates! adj2 sandwiched                          | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/19<br>15:13 |
| S155 | 183 | substrates! adj2 sandwiched between                                   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/19<br>15:14 |
| S156 | 2   | substrates! adj2 sandwiched between near9 (interlock\$4 or align \$4) | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/19<br>15:21 |
| S157 | 0   | substrates! adj2 held between near9 (interlock \$4 or align\$4)       | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/19<br>15:22 |
| S158 | 0   | substrates! adj3 held between near9 (interlock \$4 or align\$4)       | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/19<br>15:22 |
| S159 | 0   | substrates! adj3 held between near17 (interlock \$4 or align\$4)      | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/19<br>15:22 |
| S160 | 142 | substrates! adj3 held near17 (interlock\$4 or align \$4)              | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/19<br>15:22 |
| S161 | 109 | substrates! adj3 held near7 (interlock\$4 or align \$4)               | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/19<br>15:23 |
| S162 | 70  | substrates! adj held near7 (interlock\$4 or align\$4)                 | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/19<br>15:23 |
| S163 | 1   | substrates! adj2 held near7 (interlock\$4)                            | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/19<br>15:25 |
| S164 | 0   | substrates! adj2 held near7 (inter-lock\$4)                           | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/19<br>15:25 |
| S165 | 0   | substrates! adj2 sandwiched near19 (interlock\$4)                     | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/19<br>15:26 |
| S166 | 0   | substrates! adj2 sandwiched same (interlock \$4)                      | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/19<br>15:26 |
| S167 | 8   | substrates! adj2 held same (interlock\$4)                             | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/19<br>15:26 |

|      |     |  |                           |     |    |                     |
|------|-----|--|---------------------------|-----|----|---------------------|
| S168 | 258 | substrates! near9 (interlock \$4)  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/19<br>15:45 |
| S169 | 235 | substrates! near7 (interlock \$4)  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/19<br>15:45 |
| S170 | 196 | substrates! near5 (interlock \$4)  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/19<br>15:45 |
| S171 | 2   | microfluid\$3 and<br>substrates! near5 (interlock \$4)   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/19<br>15:45 |
| S172 | 2   | microfluid\$3 and<br>substrates! near9 (interlock \$4)   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/19<br>15:46 |
| S173 | 22  | substrates! near5 encased<br>near7 layer   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/20<br>11:17 |
| S174 | 12  | substrates! adj3 encased<br>near7 layer  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/20<br>11:17 |
| S175 | 177 | substrates! adj3<br>sandwiched near7 layer   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/20<br>11:18 |
| S176 | 106 | substrates! adj3<br>sandwiched adj5 layer  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/20<br>11:18 |
| S177 | 91  | substrates! adj2<br>sandwiched adj5 layer  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/20<br>11:18 |
| S178 | 0   | substrates! adj2<br>sandwiched between adj5<br>layer   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/20<br>11:18 |
| S179 | 37  | substrates! adj2<br>sandwiched between adj5<br>layer   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/20<br>11:18 |
| S180 | 5   | ("5315072"   "5495665"  <br>"5509200"   "5758413"  <br>"6580036").PN.  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/20<br>11:27 |
| S181 | 0   | substrates! adj2 held adj5<br>outer adj3 layer   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/20<br>11:31 |
| S182 | 0   | substrates! adj2 held adj5<br>outer adj5 layer   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/20<br>11:31 |
| S183 | 0   | substrates! adj2 held<br>near7 (outer adj5 layer)  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/20<br>11:31 |
| S184 | 0   | substrates! adj2 held<br>near7 (outer adj7 layer)  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/20<br>11:31 |
| S185 | 35  | substrates! adj2 held<br>near7 outer   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/20<br>11:31 |
| S186 | 21  | ("5075152"   "5171132"  <br>"5271724"   "5277556"  <br>"5375079"   "5376252"  <br>"5736188"   "5750240"  <br>"5824204"   "6128027").<br>PN. OR ("6509085").URPN. | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/20<br>11:34 |
| S189 | 27  | substrate disposed cavity  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/22<br>10:29 |

|      |      |  |                           |     |    |                     |
|------|------|--|---------------------------|-----|----|---------------------|
| S190 | 51   | wafers! disposed cavity                            | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/22<br>10:38 |
| S191 | 1    | wafers! disposed cavity                            | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/22<br>10:38 |
| S192 | 0    | substrates! adj2 cavity                            | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/22<br>10:39 |
| S193 | 0    | substrates! near4 cavity                           | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/22<br>10:39 |
| S194 | 1    | substrates! near7 cavity                           | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/22<br>10:39 |
| S195 | 1    | substrates! near9 cavity                           | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/22<br>10:39 |
| S196 | 1    | substrates! near11 cavity                          | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/22<br>10:39 |
| S197 | 1305 | wafers! near11 cavity                              | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/22<br>10:40 |
| S198 | 311  | wafers! adj3 cavity                                | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/22<br>10:40 |
| S199 | 191  | wafers! adj2 cavity                                | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/22<br>10:40 |
| S200 | 277  | substrates! adj2 pressed<br>together               | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/22<br>11:06 |
| S202 | 31   | substrates! near5 press\$1fit<br>\$4               | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/29<br>09:42 |
| S203 | 21   | substrates! near3 press\$1fit<br>\$4               | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/29<br>09:43 |
| S204 | 366  | substrates! near3 pressed<br>together              | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/29<br>09:48 |
| S205 | 1    | substrates! near3 pressed<br>together adj5 cavity  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/29<br>09:49 |
| S206 | 1    | substrates! near3 press\$3<br>together adj5 cavity | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/29<br>09:49 |
| S207 | 14   | substrates! near3 press\$3<br>adj5 cavity          | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/12/29<br>09:49 |

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